

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

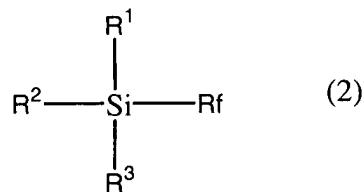
1-4 (canceled).

5. (currently amended): A ~~production method of a perfluoroolefin for producing the~~ highly branched perfluoroolefin according to Claim 1 represented by the following formula (1):

$[(CF_3)_2CF][(CF_3)_2CY]C=C(CF_3)Z$ (1)

in the formula, Y and Z are the same or different and each represents F or Rf, Rf represents a straight or branched perfluoroalkyl group having 1 to 16 carbon atoms, provided that Y and Z are not simultaneously F,

which wherein said method comprises reacting a hexafluoropropene trimer with a trialkylperfluoroalkylsilane represented by the following ~~general~~ formula (2):



in the formula, Rf represents a straight or branched perfluoroalkyl group having 1 to 16 carbon atoms, R¹, R² and R³ are the same or different and each represents an alkyl group having 1 to 3 carbon atoms,

in an aprotic polar solvent using a fluoride ion as a catalyst.

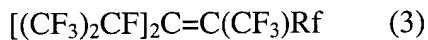
6. (currently amended): The ~~production~~-method of the perfluoroolefin according to Claim 5,

wherein the trialkylperfluoroalkylsilane is trifluoromethyltrimethylsilane.

7. (currently amended): The ~~production~~-method of the perfluoroolefin according to Claim 6,

wherein the aprotic polar solvent is 1,3-dimethyl-2-imidazolidinone and

wherein a highly branched perfluoroolefin (A) represented by the following ~~general~~ formula (3) is selectively obtained:



in the formula, Rf represents a straight or branched perfluoroalkyl group having 1 to 16 carbon atoms;

~~is obtained selectively.~~

8. (currently amended): The ~~production~~-method of the perfluoroolefin according to claim 7,

wherein the highly branched perfluoroolefin (A) is obtained at a yield of 60% by weight or higher.

9. (currently amended): The ~~production method of the perfluoroolefin~~ according to claim 7,

wherein the highly branched perfluoroolefin (A) is perfluoro(2,4-dimethyl-3-isopropyl-2-pentene).

10-21 (canceled).